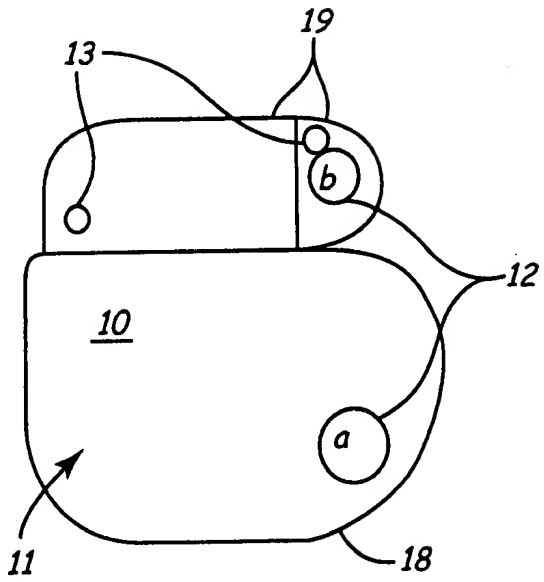


FIG. 1
PRIOR ART

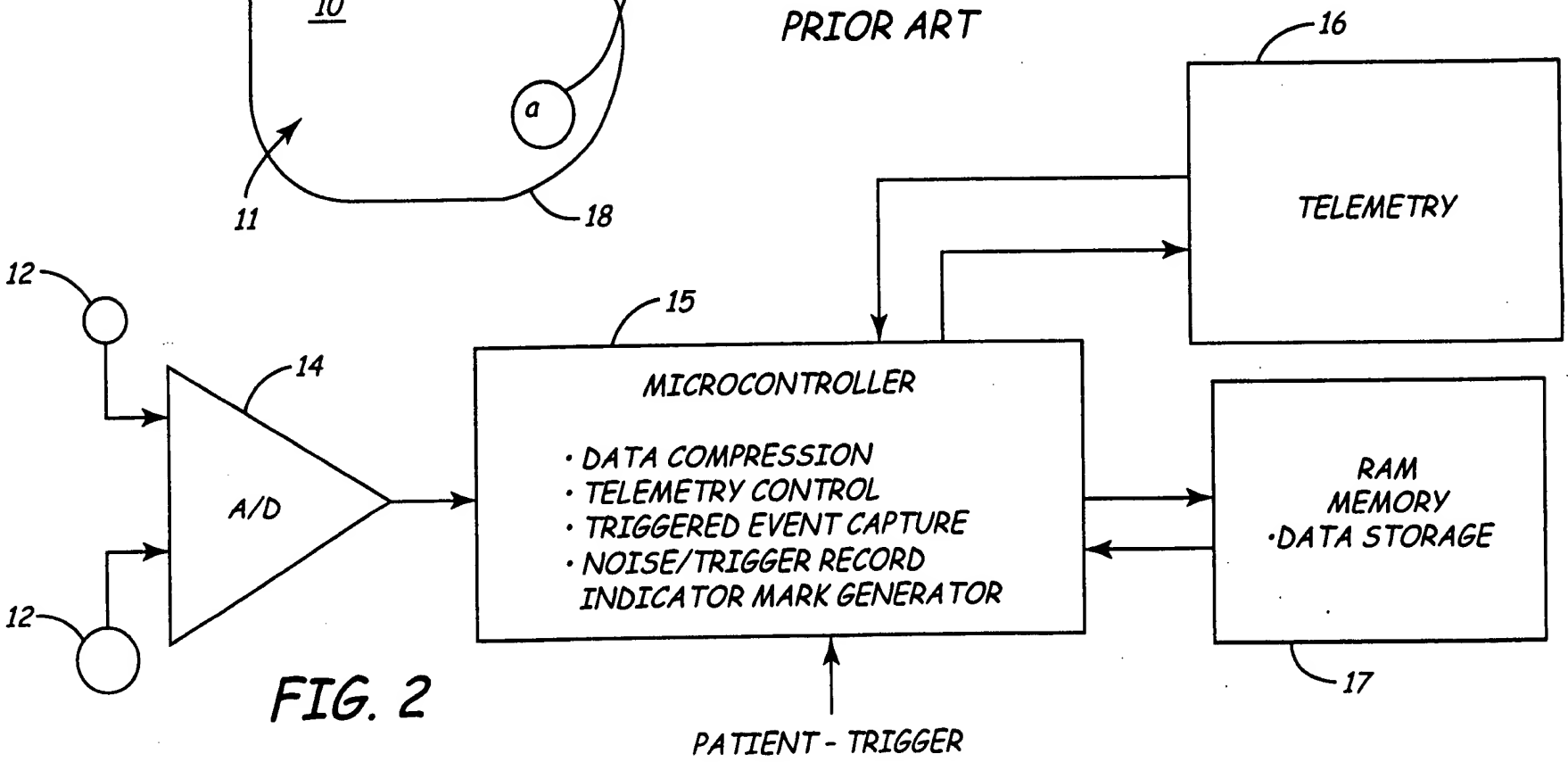


FIG. 2

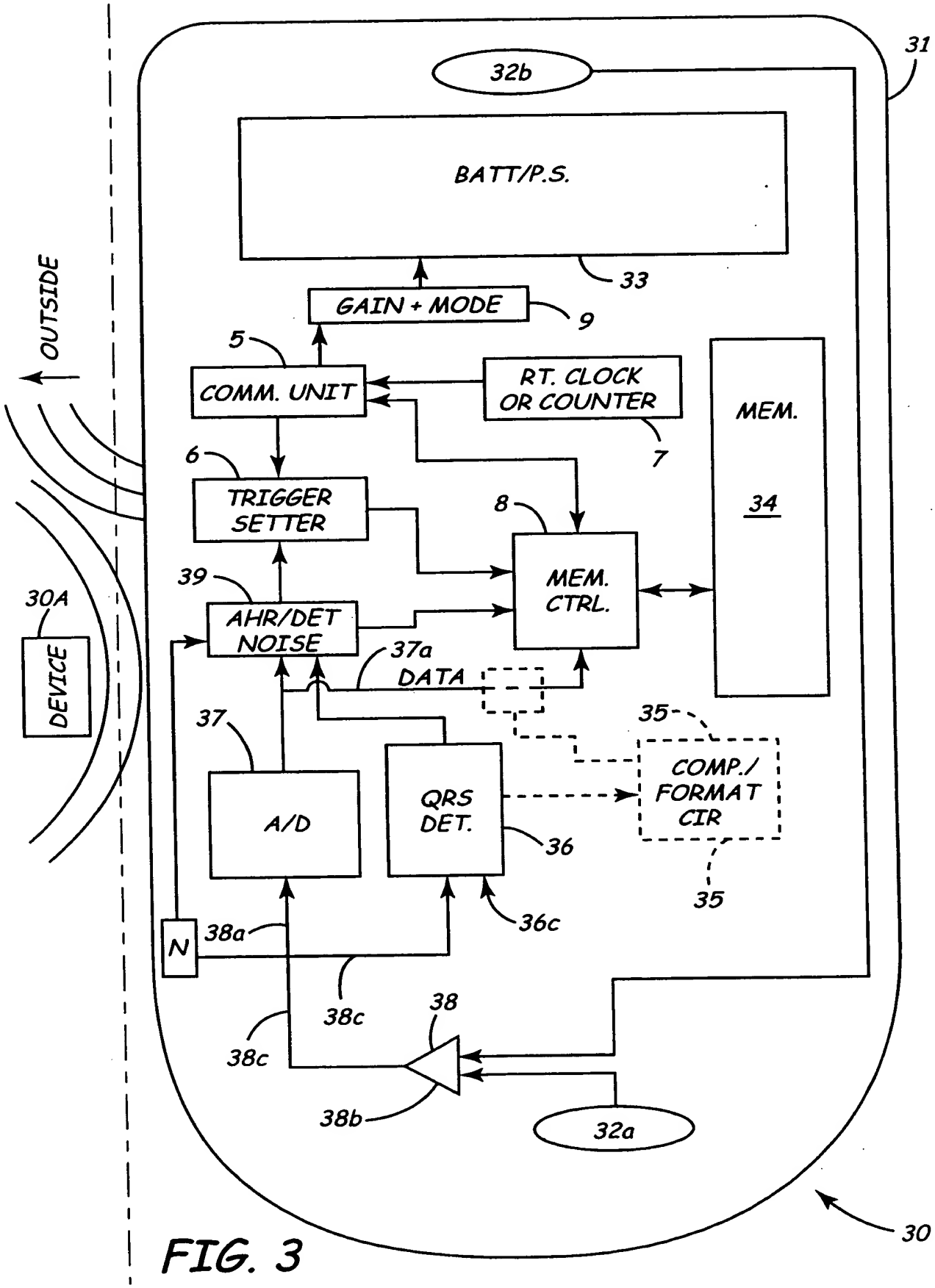


FIG. 3

09756521.101001

EP0101255A2

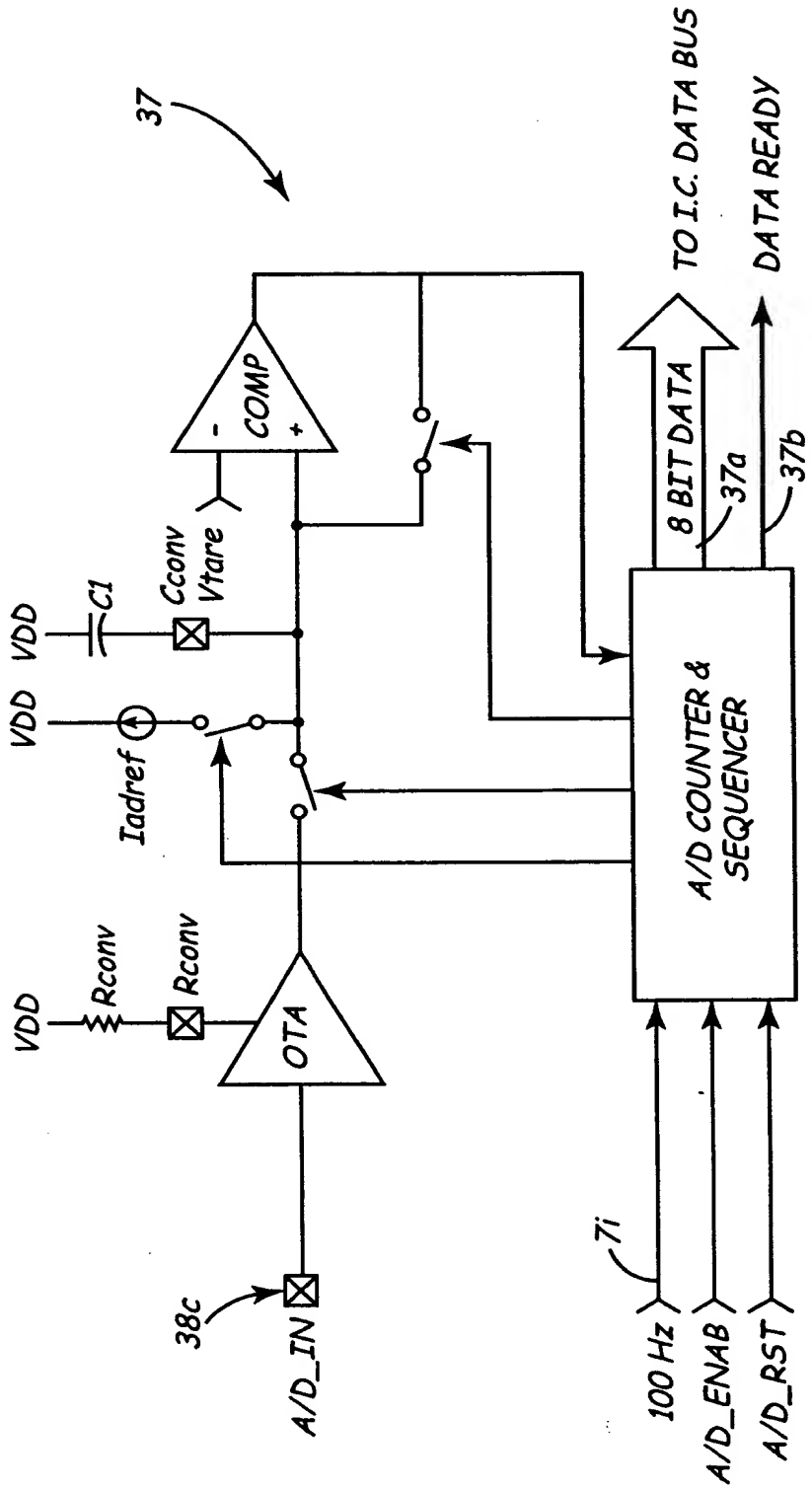


FIG. 3A

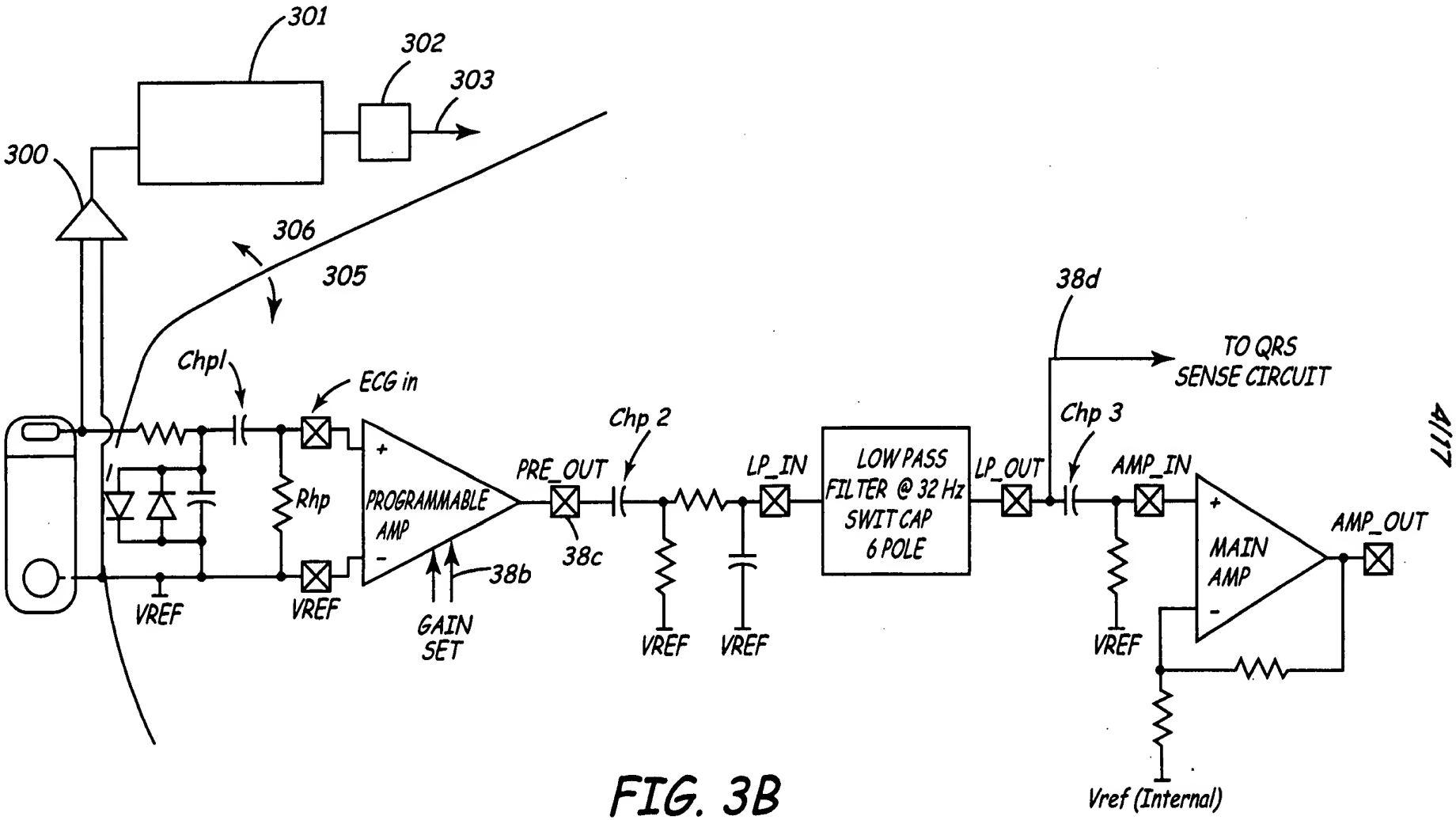

301
302
303
300
306
305
Chpl
ECG in
I
Rhp
PROGRAMMABLE AMP
VREF
VREF
GAIN SET
38b
PRE_OUT
38c
Chp 2
LP_IN
LOW PASS FILTER @ 32 Hz SWIT CAP 6 POLE
LP_OUT
38d
TO QRS SENSE CIRCUIT
Chp 3
AMP_IN
MAIN AMP
AMP_OUT
VREF
VREF
VREF
Vref (Internal)
4/17

FIG. 3B

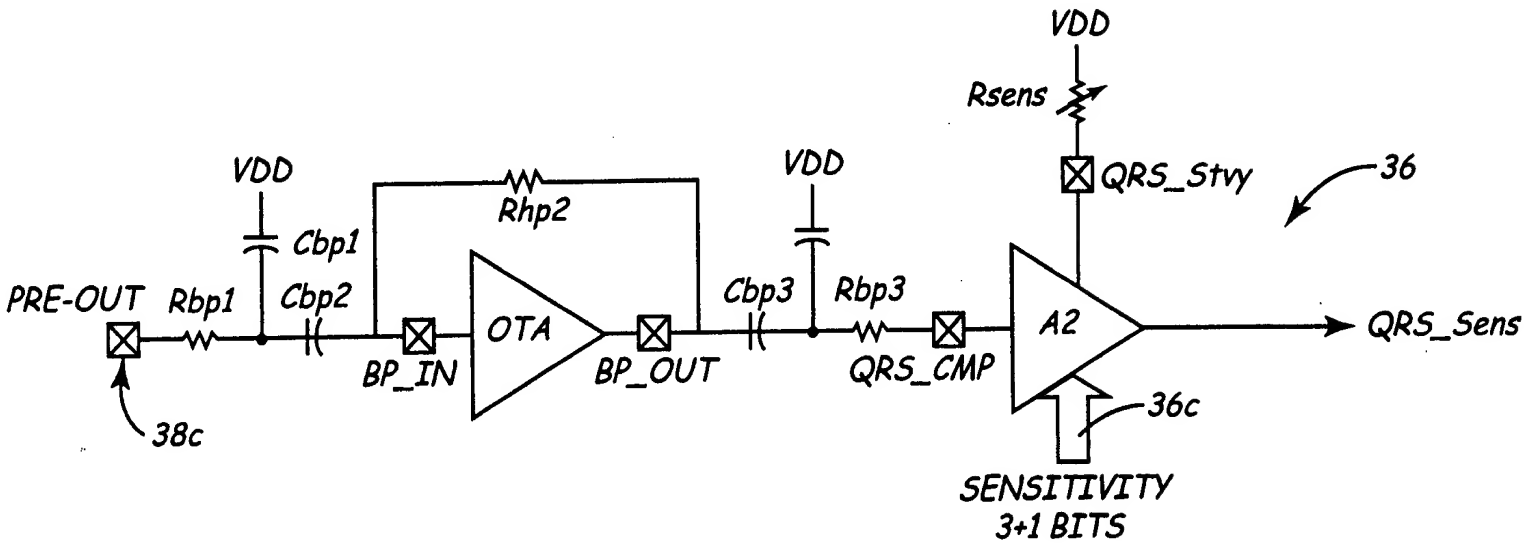

VDD
Rsens
QRS_Stvy
36
VDD
Rhp2
VDD
Cbp1
PRE-OUT
Rbp1
Cbp2
OTA
Cbp3
Rbp3
A2
QRS_Sens
BP_IN
BP_OUT
QRS_CMP
38c
36c
SENSITIVITY
3+1 BITS

FIG. 3C

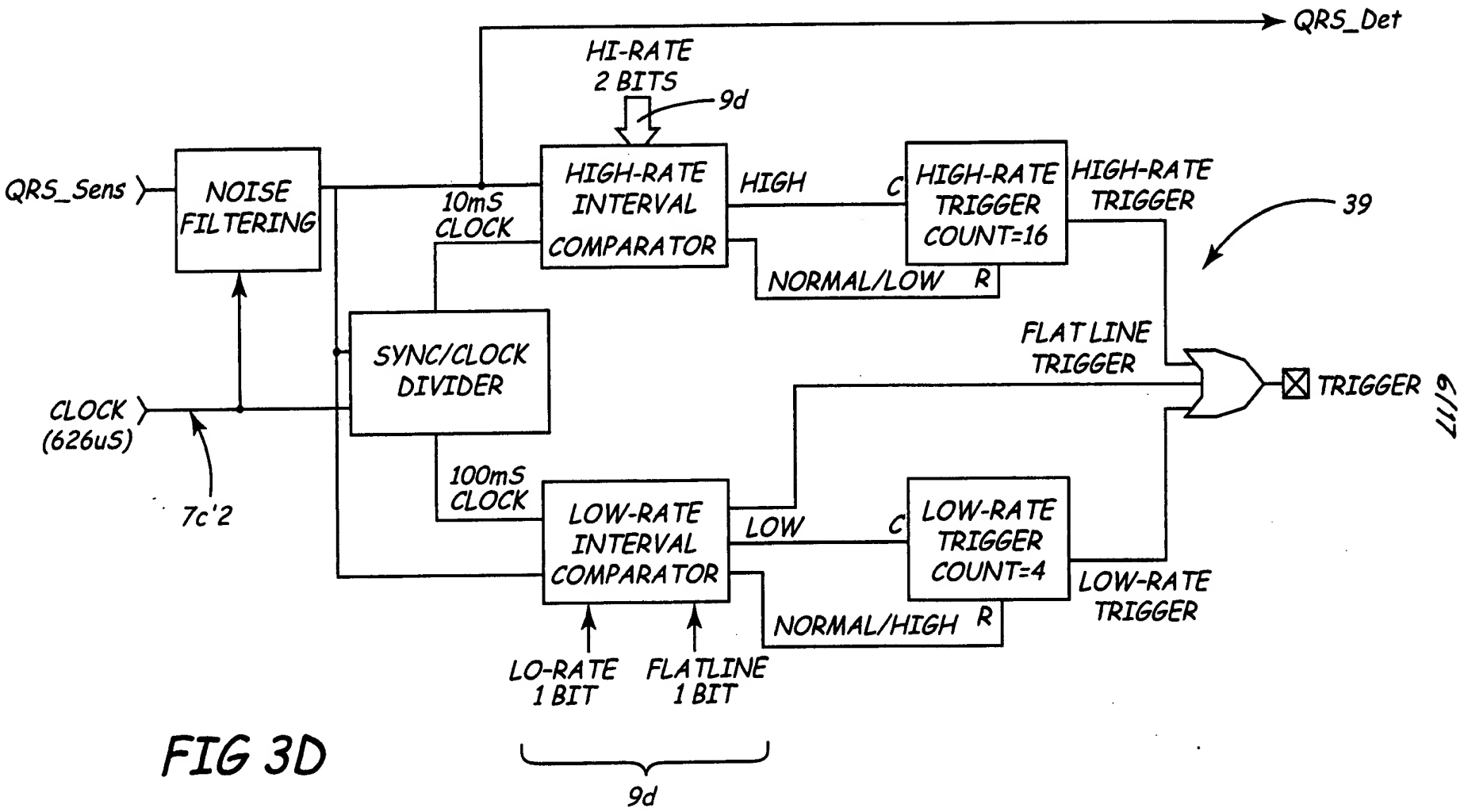

QRS_Det
HI-RATE
2 BITS
9d
QRS_Sens
NOISE
FILTERING
10mS
CLOCK
HIGH-RATE
INTERVAL
COMPARATOR
HIGH
C
HIGH-RATE
TRIGGER
COUNT=16
HIGH-RATE
TRIGGER
39
NORMAL/LOW
R
SYNC/CLOCK
DIVIDER
FLAT LINE
TRIGGER
TRIGGER
CLOCK
(626uS)
7c'2
100mS
CLOCK
LOW-RATE
INTERVAL
COMPARATOR
LOW
C
LOW-RATE
TRIGGER
COUNT=4
LOW-RATE
TRIGGER
NORMAL/HIGH
R
LO-RATE
1 BIT
FLATLINE
1 BIT
9d

FIG 3D

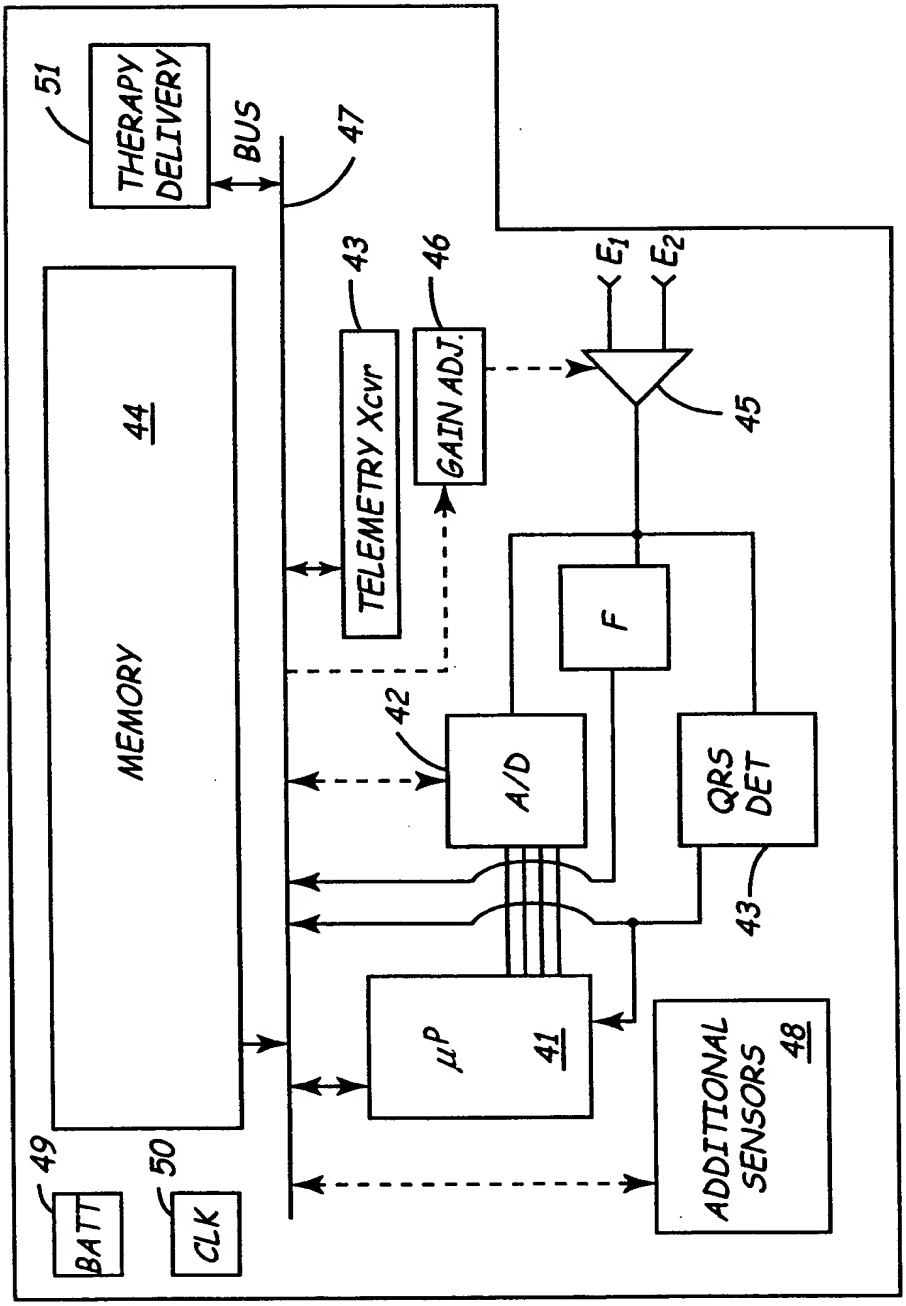

51
THERAPY DELIVERY
BUS
47
43
46
E_1
E_2
44
MEMORY
TELEMETRY Xcvr
GAIN ADJ.
45
F
42
A/D
QRS DET
43
μP
41
ADDITIONAL SENSORS
48
40
49
BATT
50
CLK

FIG. 4

T0010T-T29576D

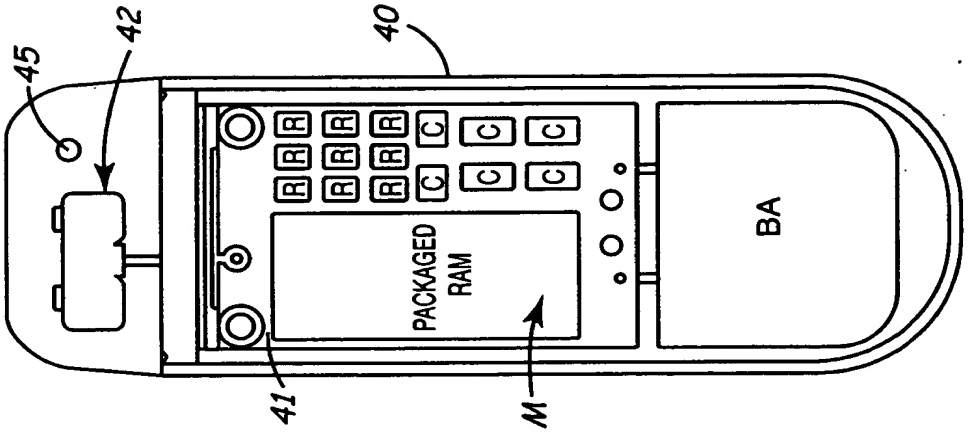


FIG. 4C

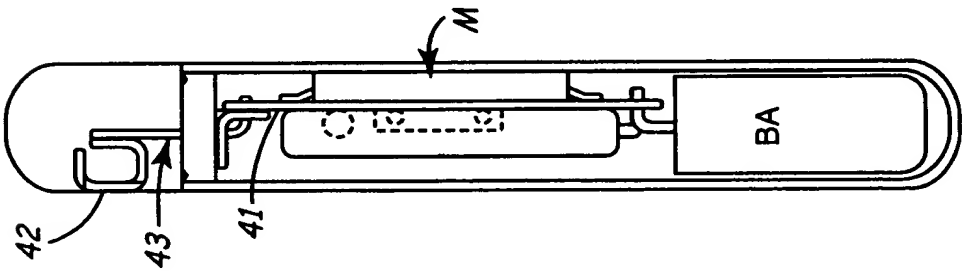


FIG. 4B

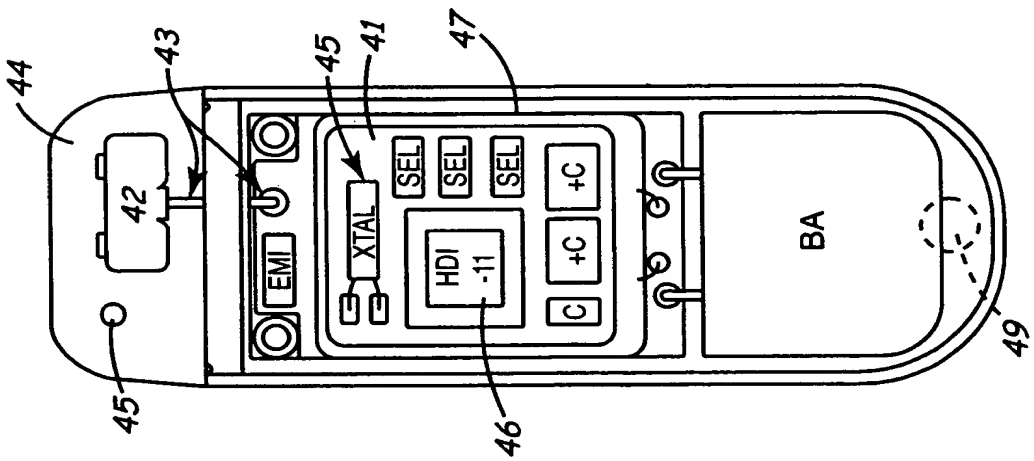


FIG. 4A

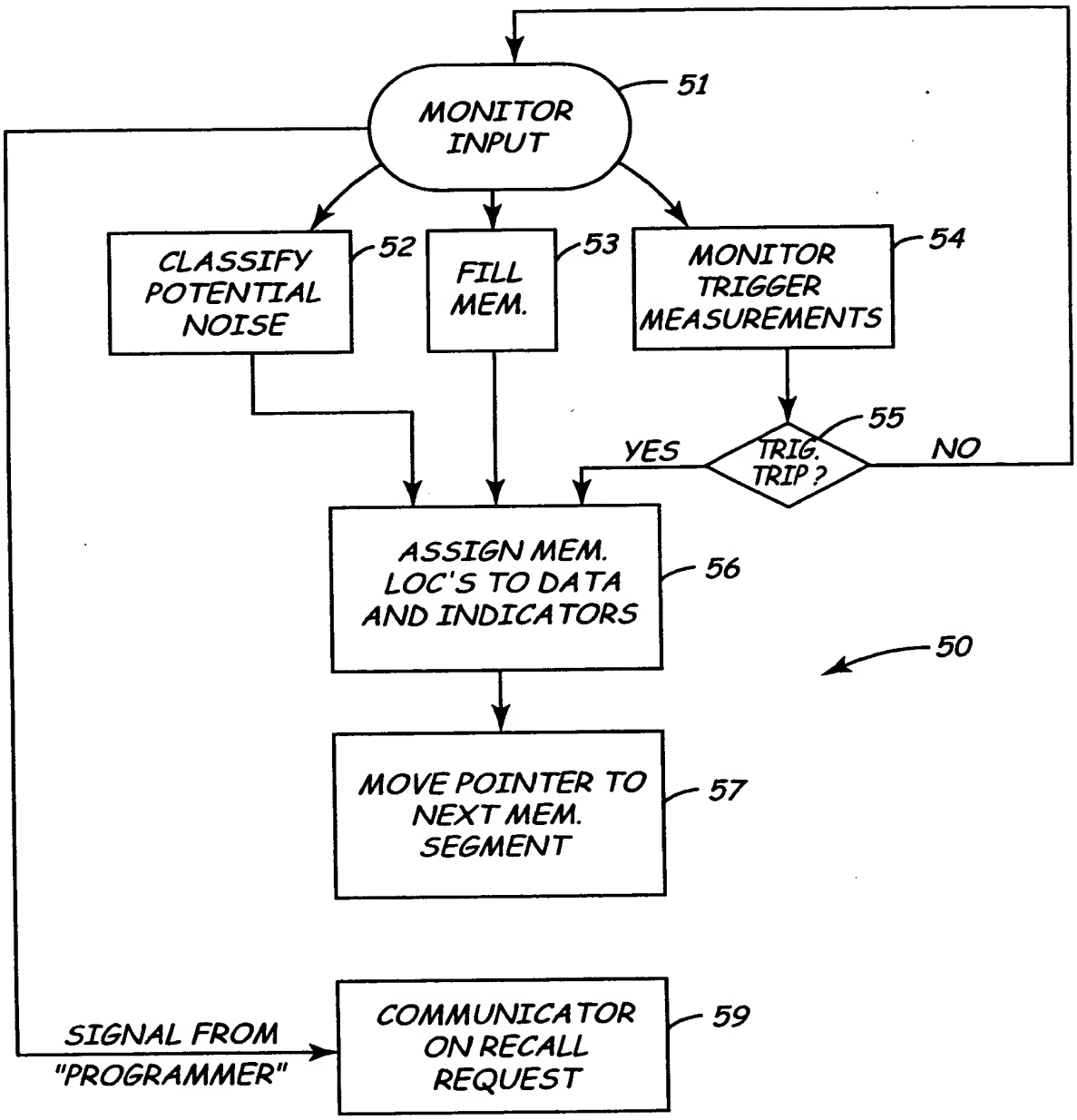


FIG. 5

EP0704224A2

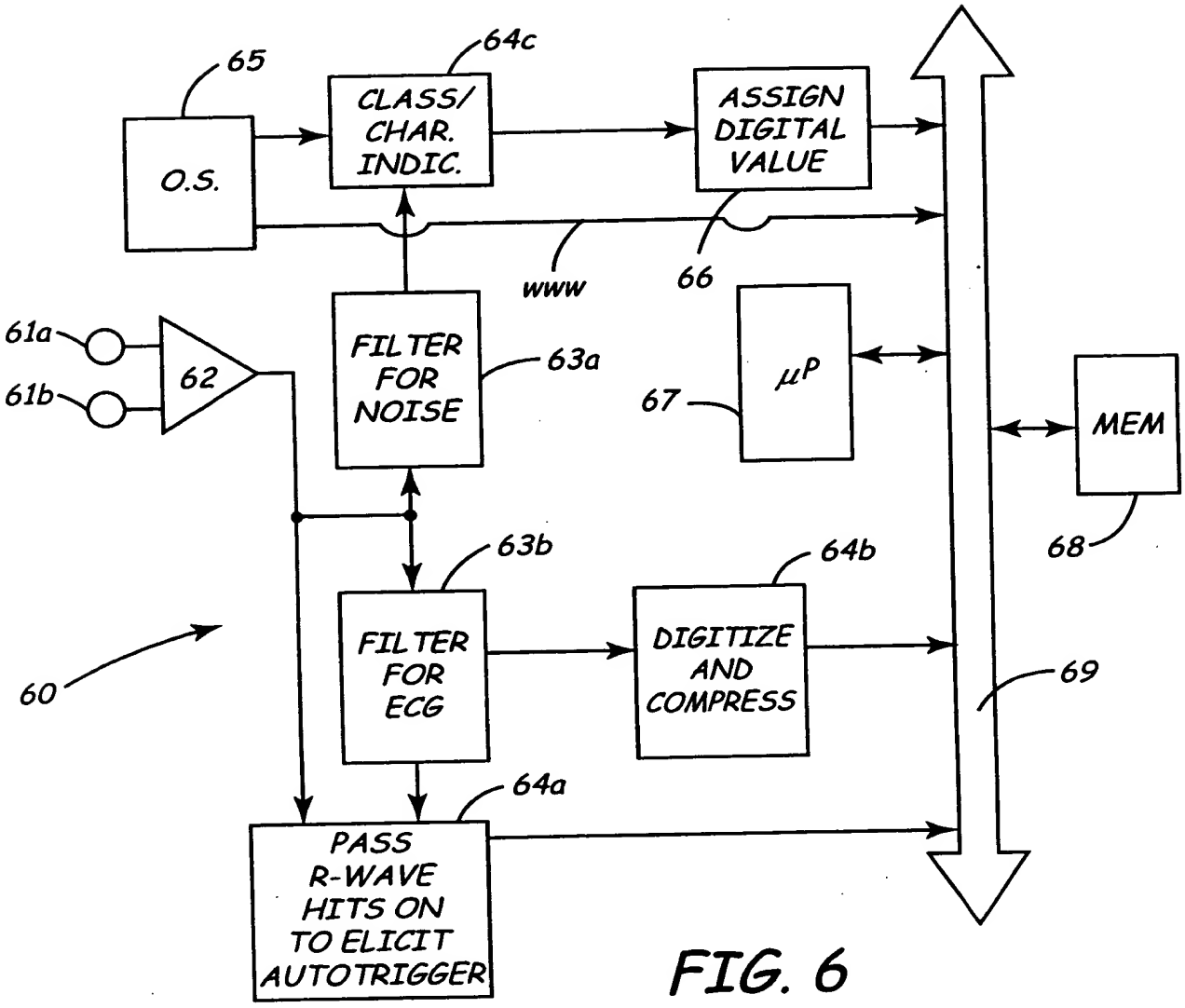


FIG. 6

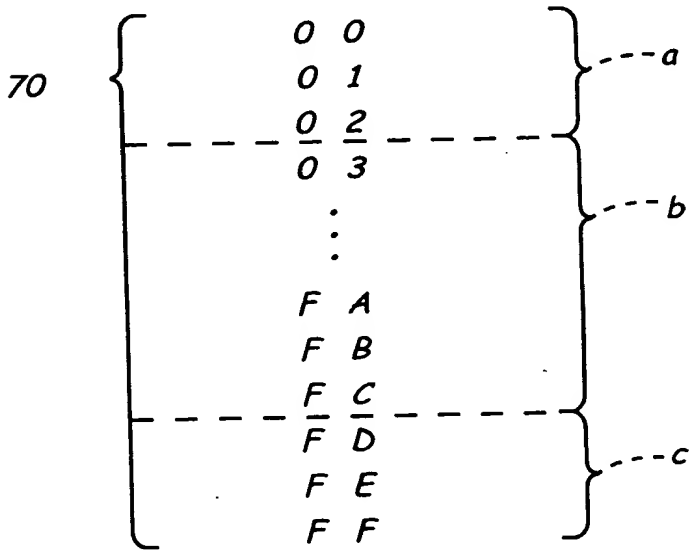


FIG. 7

TOOTOT-T2SS/960

REVEAL PLUS MODEL 9526

08:45 06/01/1999
PROGRAMMER 9790 9809E01
(C) MEDTRONIC, INC. 1999

SUMMARY GRAPH

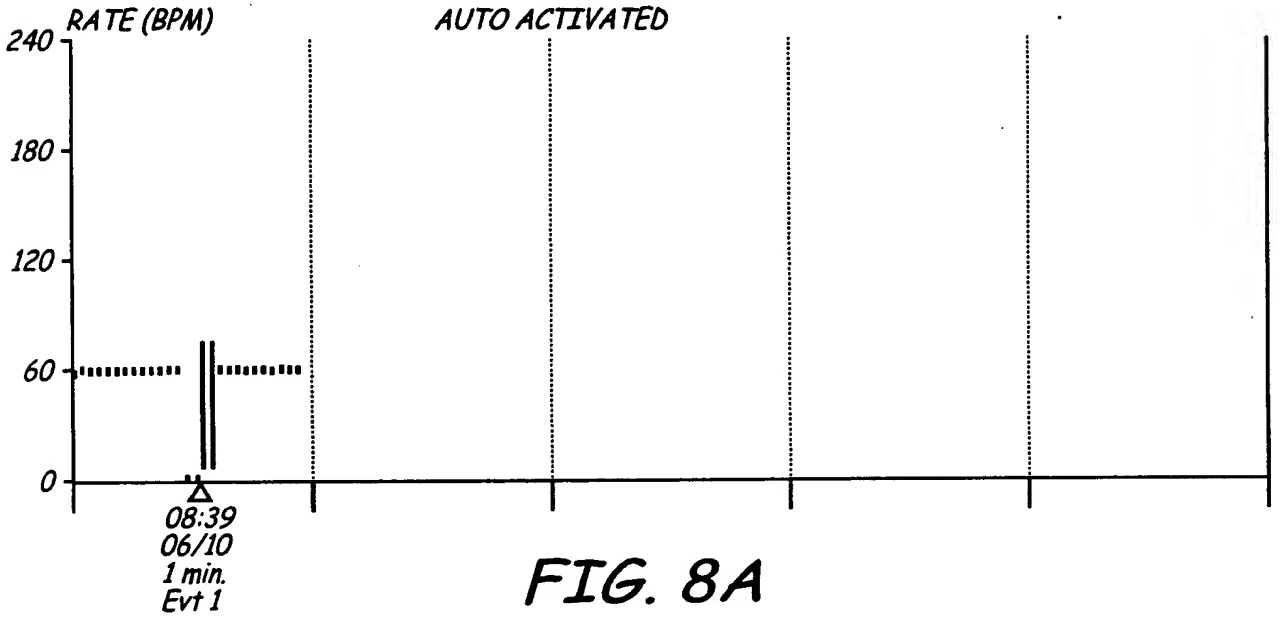


FIG. 8A

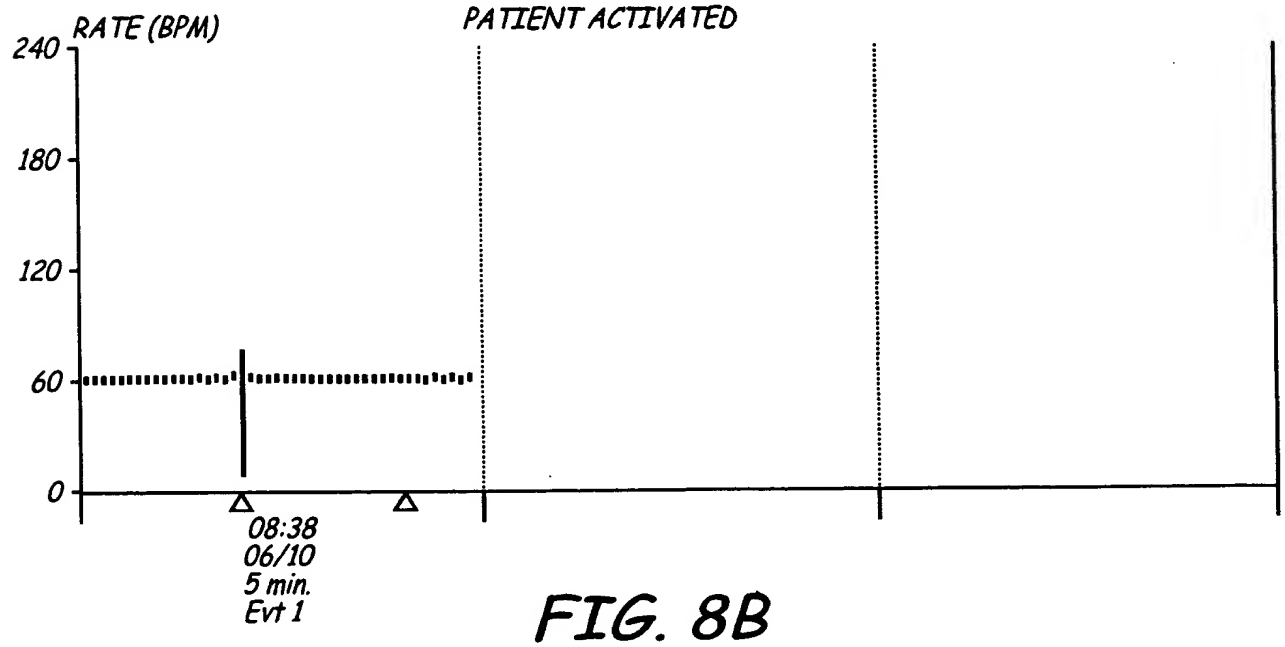


FIG. 8B

Δ=ACTIVATION POINT

FOOTPRINT: 2695,660

REVEAL PLUS MODEL 9526
GAIN: x2 (+/-0.8 mV)
STORAGE MODE: 3 PATIENT, 5 AUTO EVENTS, 21 MIN.
PATIENT EVENT 1 OF 1 RECORDED 06/10/1999
12.5 mm/sec, 18.1 mm/mV

08:45 06/01/1999
PROGRAMMER 9790 9809E01
(C) MEDTRONIC, INC. 1999
PAGE 2 OF 3
Δ=ACTIVATION POINT

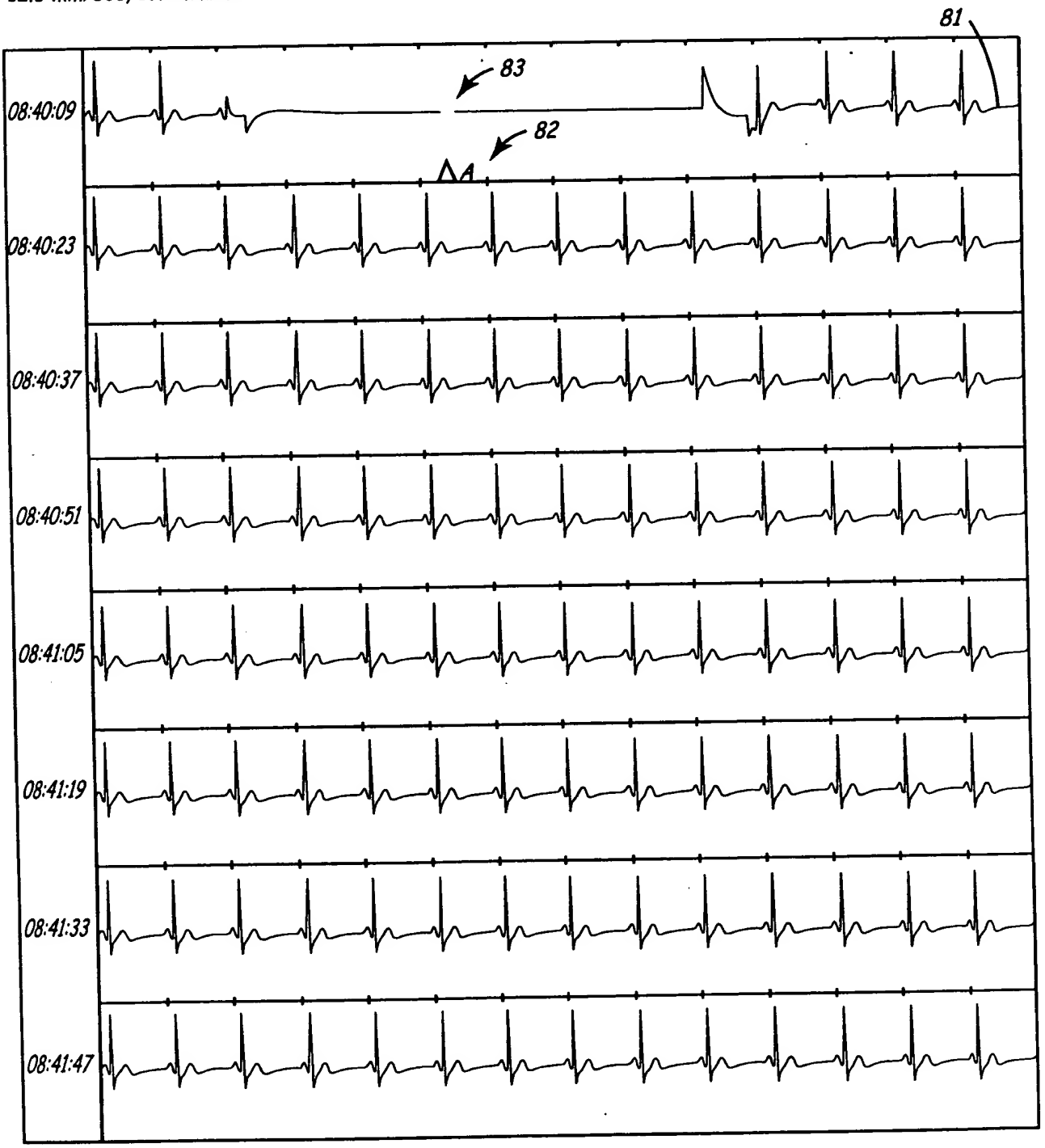
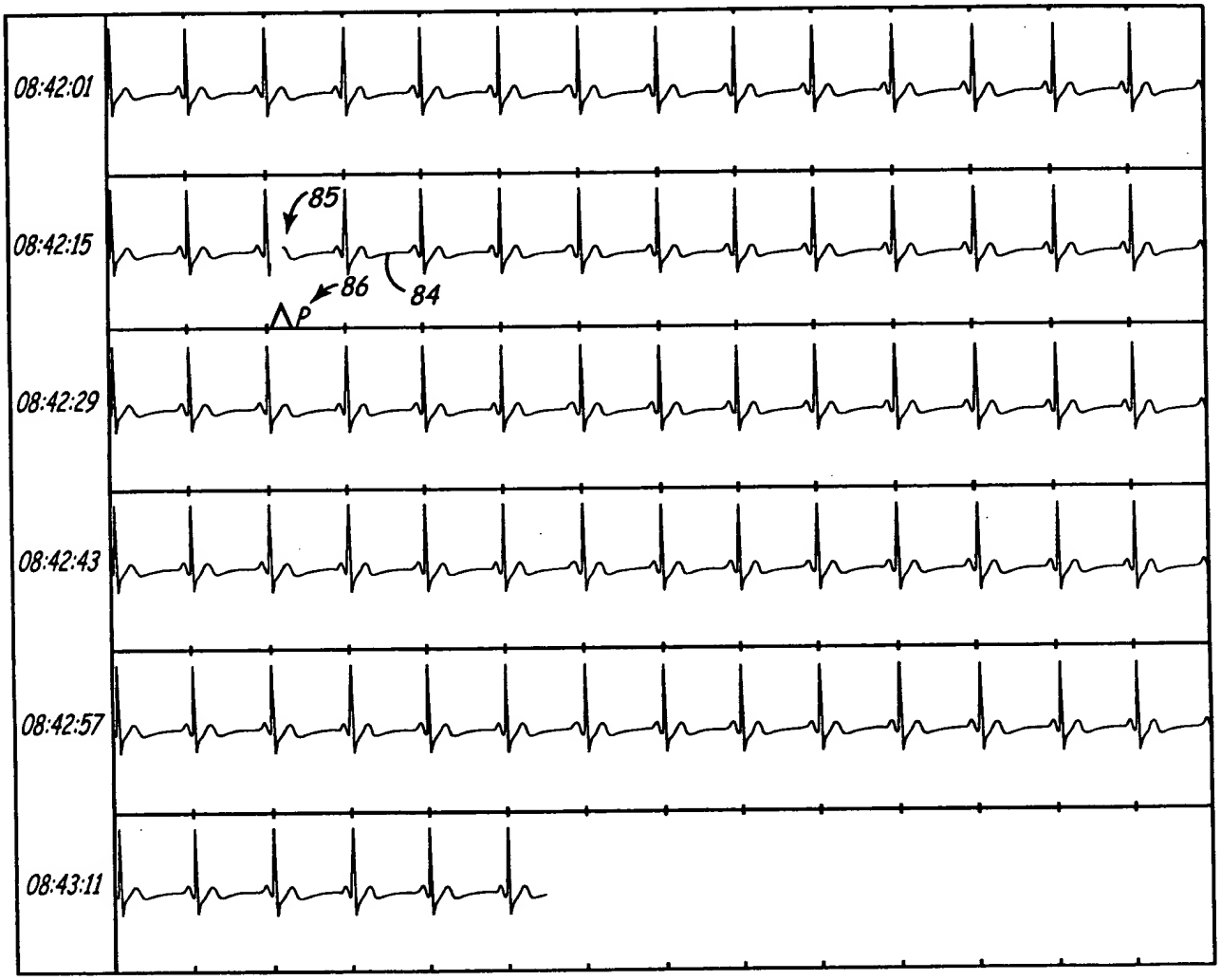


FIG. 9A

09/551,701

REVEAL PLUS MODEL 9526
GAIN: x2 (+/-0.8 mV)
STORAGE MODE: 3 PATIENT, 5 AUTO EVENTS, 21 MIN.
PATIENT EVENT 1 OF 1 RECORDED 06/10/1999
12.5 mm/sec, 18.1 mm/mV

08:45 06/01/1999
PROGRAMMER 9790 9809E01
(C) MEDTRONIC, INC. 1999
PAGE 3 OF 3
Δ=ACTIVATION POINT



09/562,401

FIG. 9B

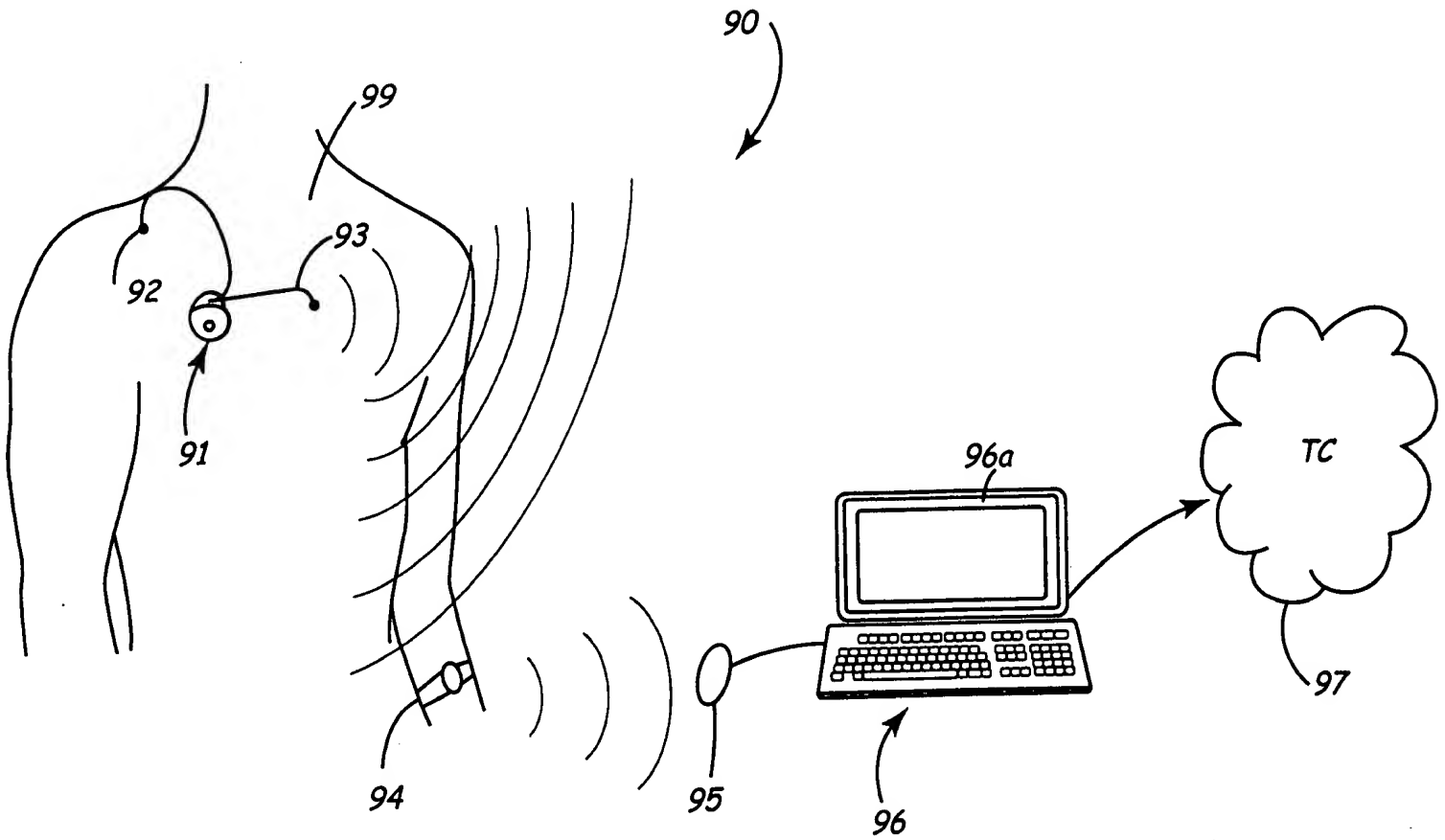


FIG. 10

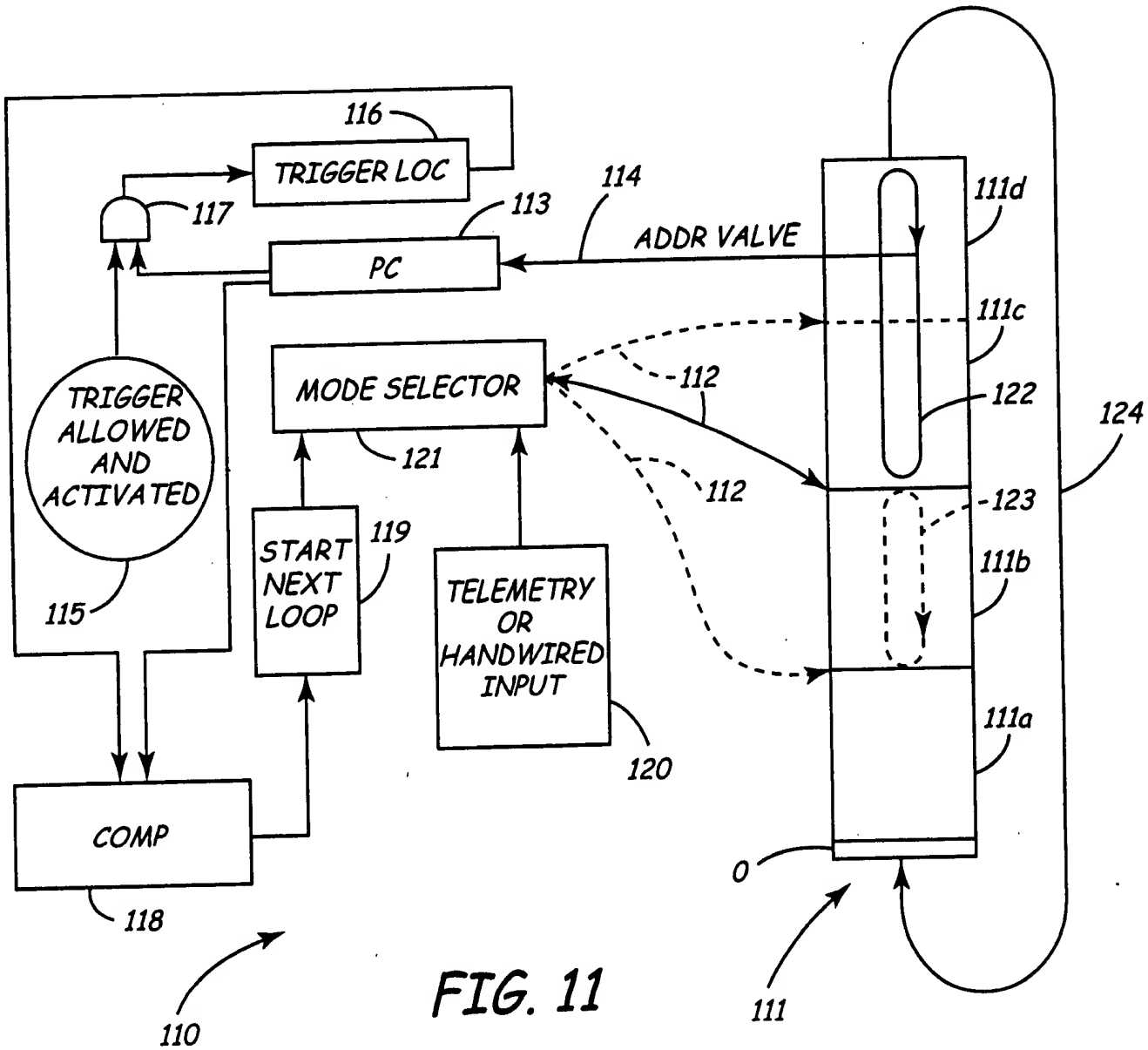

116
TRIGGER LOC
117
113
114
ADDR VALVE
PC
111d
111c
MODE SELECTOR
112
122
124
TRIGGER ALLOWED AND ACTIVATED
121
112
123
START NEXT LOOP
119
111b
TELEMETRY OR HANDWIRED INPUT
111a
115
120
COMP
0
118
110
111

FIG. 11

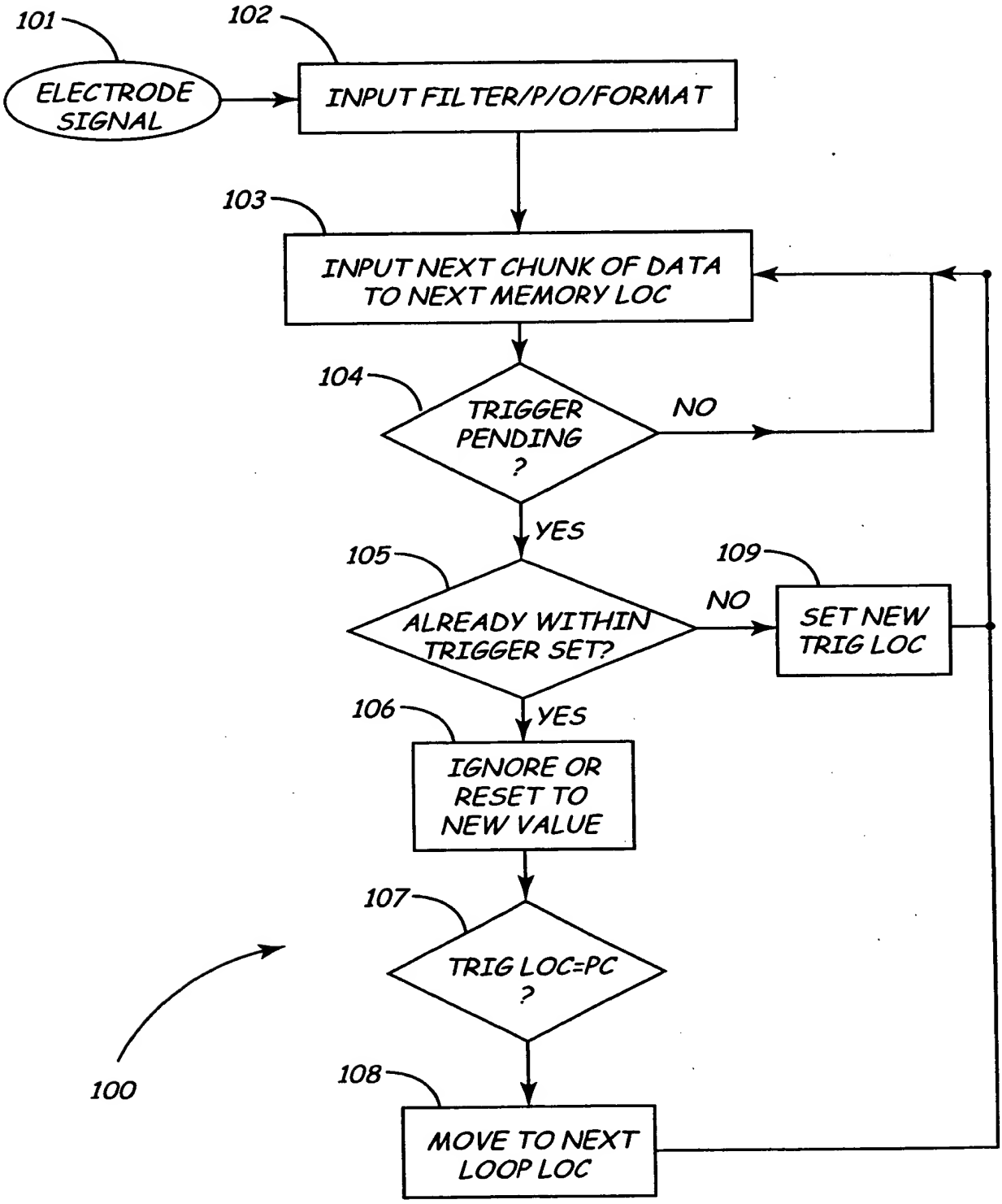


FIG. 12

Docket: 2756.1004

09675621-040104

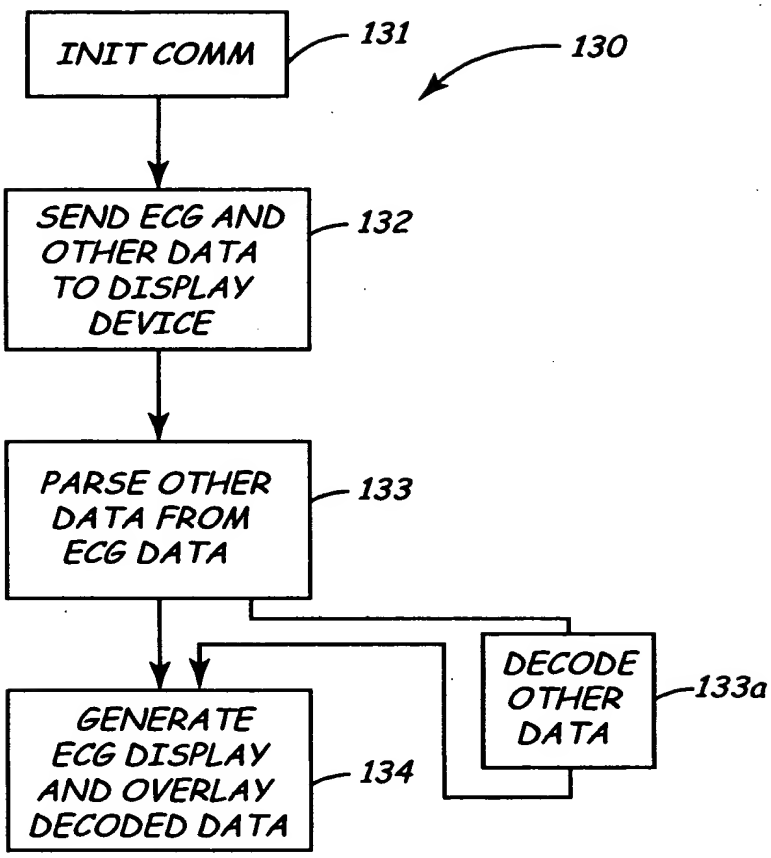


FIG. 13